

U.S. ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (75-767)  
WASHINGTON, DC 20460

NOTICE OF PESTICIDE: ☒ REGISTRATION  
☐ REREISTRATION  
(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

EPA REGISTRATION NO.

8340-38

DATE OF ISSUANCE

Aug 15 1991

TERM OF ISSUANCE

Conditional

NAME OF PESTICIDE PRODUCT

filler herbicide

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Hoechst Celanese Corporation  
Route 202-206  
P.O. Box 2500  
Somerville, NJ 08876-1253

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an endorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A), provided that you:

1. Submit/cite all data required for registration/reregistration of this product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit an acceptable 2-year mouse bioassay study (EPA guideline Reference No. 83-2) within 40 months of the date of this notice.
3. Add the phrase "EPA Registration No. 8340-38" to the label before you release the product for shipment.
4. Submit five (5) copies of the final printed labeling before you release the product for shipment.
5. Revise the Environmental Hazards Statement in regard to wetlands to read: "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(c). Your release for shipment of the product certifies acceptance of these conditions. A stamped copy of the label is enclosed for your records.

**BEST AVAILABLE COPY**

Product Name: (25)

Registration No. 8340-38

Registration Division (75-767)

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

*Joanne A. Miller*

DATE

8/15/91

Revised February 11, 1991

**TILLER<sup>TM</sup> HERBICIDE**

**ACTIVE INGREDIENTS:**

fenoxaprop-ethyl: (±)-ethyl 2-[4-[(5-chloro-2-benzoxazolyl)  
oxy]phenoxy]propanoate: . . . . . 9.31%\*

2,4-D, isooctylester: 2-ethylhexyl-2,4-  
dichlorophenoxyacetate . . . . . 10.81%\*\*

(Equivalent to 6.74% of pure  
2,4-dichlorophenoxyacetic acid equivalent)

MCPA, isooctylester: Isooctyl 2-methyl-  
4-chlorophenoxyacetate . . . . . 33.87%\*\*\*

(Equivalent to 20.20% of pure  
2-methyl-4-chlorophenoxyacetic acid equivalent)

INERT INGREDIENTS: . . . . . 46.01%  
TOTAL: 100.00%

- \*Equivalent to 0.75 pound of pure fenoxaprop-ethyl per gallon
- \*\*Equivalent to 0.58 pound of pure 2,4-dichlorophenoxyacetic acid per gallon
- \*\*\*Equivalent to 1.75 pounds of pure 2-methyl-4-chlorophenoxyacetic acid per gallon

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

**SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

**SEE ATTACHED FOLDER FOR COMPLETE DIRECTIONS OF USE AND  
ADDITIONAL INFORMATION.**

EPA EST. NO. 8340-CN-01

EPA Reg. No. 8340-

NET CONTENTS:

ACCEPTED  
with COMMENTS  
by EPA Letter Dated:

**BEST AVAILABLE COPY**

**AUG 15 1991**

**Hoechst Celanese**

Hoechst Celanese Corporation  
Route 202-206  
PO Box 2500  
Somerville, NJ 08876-2558

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
Registration No. 8340-38

**Hoechst**

## PRECAUTIONARY STATEMENTS

### WARNING

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes substantial but temporary eye injury. Do not get in eyes. Avoid contact with skin. When handling this product, mixers/loaders or applicators are required to use face shields or goggles and wear chemical-resistant gloves (such as neoprene or PVC). Harmful if swallowed, absorbed through skin or inhaled. Do not take internally. Avoid inhalation of vapor or spray mist. Remove contaminated clothing and wash before reuse. May cause allergic skin reactions. In case of skin contact, wash skin with soap and water. Get medical attention if irritation persists.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water when disposing of equipment washwaters or rinsate.

#### GROUNDWATER CONTAMINATION

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D and MCPA have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D and MCPA pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

#### CLEANING OF EQUIPMENT

When cleaning equipment, do not pour the washwater on the ground; spray or drain over a large area away from wells and other water sources.

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### STATEMENT OF PRACTICAL TREATMENT

In case of eye contact, immediately flush with plenty of water for 15 minutes. Get medical attention. If on skin, wash with plenty of soap and water. If swallowed, do not induce vomiting. Tiller<sup>TM</sup> Herbicide contains petroleum distillates. Call a physician. Vomiting should be supervised by a physician because of the possible pulmonary damage via aspiration of the solvent.

If possible, bring this container and labeling to the attending physician. For emergency assistance, call (908) 231-4125.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Keep container tightly closed when not in use. Do not store near other pesticides or seeds.

Do not store over 100°F or below 10°F. Do not use or store near heat or open flame.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Empty containers should be triple rinsed into the spray tank during the spray operation. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

### IMPORTANT NOTICE: DISCLAIMER

Read "Important Notice: Disclaimer" before buying or using. If terms are not acceptable, return at once unopened. HOECHST CELANESE CORPORATION warrants only that the product conforms to the chemical description on the label and is reasonably fit for the purpose stated on the label when used in accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to HOECHST CELANESE CORPORATION and user assumes the risk of any such use. HOECHST CELANESE CORPORATION MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR OF MERCHANTABILITY. In no case shall HOECHST CELANESE CORPORATION be liable for consequential, special, indirect or incidental damages resulting from the use or handling of this product. the foregoing conditions of sale and warranty can be varied only by an agreement in writing signed by a duly authorized representative of HOECHST CELANESE CORPORATION.

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5/9  
Revised February 5, 1991

**TILLER<sup>TM</sup> HERBICIDE**

**IMPORTANT INSTRUCTIONS ENCLOSED**

**GENERAL INFORMATION**

Tiller Herbicide is a postemergence herbicide for the control of green and yellow foxtail (pigeongrass), volunteer and wild millet species, barnyardgrass, wild oats and certain broadleaf weeds in spring, and winter wheat (excluding durum). Application to wheat that is not tillered may result in malformed spikes (heads).

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply until you have read the entire label.

**APPLICATION INFORMATION**

Ground Application: Do not apply when weather conditions favor drift. Spray drift can be lessened by keeping the spray boom as low as possible, by applying 10 gallons or more of spray per acre, by using no more than 40 pounds spraying pressure with flat fan nozzle tips, by spraying when wind velocity is low, and by stopping all spraying when wind exceeds 6 to 7 miles per hour. Do not apply with hollow cone-type insecticide or other nozzles that produce a fine-droplet spray. Under dense weed/crop canopies, increased spray volume is very important for obtaining thorough coverage; therefore, use higher spray volume under these conditions.

Tiller Herbicide contains the herbicides 2,4-D and MCPA as two of the active ingredients. Therefore, spray equipment used in applying this product should be thoroughly cleaned before using for any other purposes. Use repeated flushings with soap and warm water or suitable chemical cleaner. It is best to use a separate sprayer for application of insecticides and fungicides.

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TIMING OF APPLICATION

The time of application is determined by the growth stage of the wheat. Apply Tiller Herbicide after the spring wheat begins to tiller (4-5 leaf stage which is generally equivalent to 1-2 tillers). Winter wheat should have a minimum of three tillers before application. DO NOT SPRAY SPRING OR WINTER WHEAT AFTER JOINTING BEGINS.

Tiller Herbicide will control susceptible grassy weeds in the 3-leaf to 2-tiller stage of growth. Wild oats should not exceed six inches in height when sprayed. Tiller Herbicide will also control susceptible grassy weed species in the 1-2 leaf stage of growth, but the 3-leaf stage will usually coincide best with spring wheat that has initiated tillering. For optimum control, Tiller Herbicide should be applied only to light - moderate populations of wild oats; up to 10 - 20 plants per square foot. Early control is essential with higher wild oat populations. Therefore, for best production practices Hoelon<sup>R</sup> 3EC Herbicide should be applied when the wild oats are in the 1 - 4 leaf stage of growth. Annual broadleaf weeds must not exceed 4 inches in height. Applications should be made to young, vigorously growing weeds.

Tiller Herbicide has no effect via the soil and will only control emerged grassy and broadleaf weeds.

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Tiller Herbicide, when applied as recommended, controls the following annual grassy and broadleaf weeds:

RATE RECOMMENDATION CHART\*

<u>Grass Species</u>	<u>Pints per Acre</u>	<u>Fl. Oz. Per Acre</u>
Green Foxtail (Setaria viridis)	0.95	15.0
Foxtail millets (Vol.) (Setaria italica)		
Common, Siberian, Hungarian, German Millet		
<u>Broadleaf Weeds</u>		
Common Lambsquarters (Chenopodium album)		
Wild Mustard (Sinapis arvensis)		
<u>Grass Species</u>		
Yellow Foxtail; (Setaria lutescens)	1.2	19.0
Proso Millet (Panicum miliaceum)		
(volunteer, wild)		
<u>Broadleaf Weeds</u>		
Common Lambsquarters (Chenopodium album)		
Wild Mustard (Sinapis arvensis)		
<u>Grass Species</u>		
Barnyardgrass (Echinochloa-crusgalli)	1.7	27.0
Wild Oats (Avena fatua)		
Windgrass (suppression) (Apera interrupta)		
<u>Broadleaf Weeds</u>		
Annual Sowthistle (Sonchus oleraceus)		
Canada Thistle (suppression) (Cirsium arvense)		
Common Lambsquarters (Chenopodium album)		
Field Pennycress (Thlaspi arvense)		
Pigweed (suppression) (Amaranthus spp.)		
Purslane (Portulaca oleracea)		
Ragweed (Ambrosia artemisiifolia)		
Shepherdspurse (Capsella bursa-pastoris)		
Tumble (Jim Hill) Mustard (Sisymbrium altissimum)		
Wild Mustard (Sinapis arvensis)		
Wild Radish (Raphanus raphanistrum)		

\*Use the higher rate for the control of less susceptible species in a mixed population.

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Moisture Effects on Annual Grassy Weed Control

The following conditions will result in optimum wild oat control:

1. Adequate soil moisture which occurs under normal rainfall or in wheat following a fallow year.
2. Temperatures generally lower than 85°F for several days prior to application.

Low soil moisture levels, low humidity and high temperatures will all interact to reduce the wild oat control by Tiller Herbicide.

Foxtail (pigeongrass) can be well controlled over a wide range of soil moisture conditions. Foxtail under drought stress exhibits rolled leaves ("onion leaf") and should not be sprayed as poor control may result.

Tank Mix Combinations For Foxtail and Foxtail Millets

Broadleaf Herbicides

In fields where foxtails and foxtail millets are the dominant grassy weed species, additional broadleaf weed control can be achieved by tank mixing Tiller Herbicide with the following herbicides:

Banvel (4 lb/gal)...at two (2) fluid ounces of product per acre.  
Banvel SGF (2 lb/gal)...at four (4) fluid ounces of product per acre.  
Buctril 2EC\*.....at a maximum of one (1) pint of product per acre  
Harmony 75 DF\*..... at a maximum of one-third (0.33) ounce of  
product per acre  
MCPA ester (4 lb/gal).. at a maximum of one-half (0.5) pint of product  
per acre  
Tordon 22K.....at one - one and one-half (1.0 - 1.5) fluid  
ounces of product per acre

\*For green foxtail and foxtail millets only.

No rate change is necessary when tank mixing Tiller Herbicide with the recommended broadleaf herbicides. Refer to these specific product labels for all use and precautionary statements.

Tank Mix Combinations for Wild Oat and Barnyardgrass

In fields where wild oats and/or barnyardgrass are the dominant grassy weed species, additional broadleaf weed control can be achieved by tank mixing Tiller Herbicide with the following herbicide:

Tordon 22K.....at one - one and one-half (1.0 - 1.5) fluid  
ounces per acre

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No rate change is necessary when tank mixing Tiller Herbicide with the recommended broadleaf herbicides. Refer to these specific product labels for all use and precautionary statements.

SPECIAL NOTES

1. Do not apply to Durum wheat, barley, rye, or tame oats.
2. Rainfall within one (1) hour of an application may cause a reduction in weed control.
3. DO NOT apply more than one (1) application in a growing season; DO NOT apply more than 1.7 pints per acre per growing season.
4. DO NOT apply Tiller Herbicide within 70 days of harvest.
5. DO NOT apply this product through any irrigation system.
6. DO NOT apply this product around houses, recreation sites, or similar areas.
7. DO NOT apply this product aerially.
8. DO NOT tank mix Tiller Herbicide with other broadleaf herbicides, surfactants or liquid fertilizers unless specifically recommended on the Tiller Herbicide Label.
9. Tiller Herbicide contains the herbicides 2,4-D and MCPA as two of the active ingredients. Therefore, this product may kill or seriously injure many desirable forms of vegetation. Do not apply directly to flowers, fruits, vegetables, grapes, ornamentals, cotton, or other desirable plants. Do not use when there is hazard from drifting mists. (Coarse sprays are less likely to drift.) Vapors from this product may injure susceptible plants in the immediate vicinity.
10. Tiller Herbicide contains the herbicides 2,4-D and MCPA as two of the active ingredients. Excessive amounts of this product in the soil may temporarily inhibit seed germination and plant growth.
11. Cool, wet conditions at the time of application may result in temporary stunting or chlorosis of the wheat.

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Banvel Herbicide is a registered trademark of Sandoz Ltd.

Buctril 2EC is a registered trademark of Rhone Poulenc, Inc.

Harmony 75 DF is a registered trademark of E.I. duPont de Nemours & Co., Inc.

Tordon 22K is a registered trademark of Dow Chemical Company.  
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